IN THE UNITED STATES PATENT AND TRADEMARK OFFICE Nitin Parekh

Steven Towle et al. plicant: Serial No.:

2811 Group Art Unit:

09/845896 Docket: 884.409US1

Filed:

Assignee:

HIGH PERFORMANCE, LOW COST MICROELECTRONIC CIRCUIT

Title:

PACKAGE WITH INTERPOSER Customer No .:

## Intel Corporation SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 et. seq., the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Supplemental Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Applicants note that certain of the enclosed documents were first brought to Applicants' attention via International Search Reports in PCT/US01/12088, mailed May 22, 2003, and PCT/US02/15802, mailed May 8, 2003, as well as a Partial International Search Report in

tention via International Search

CT/US02/15802, mailed May 8, 2003, as well as -
CT/US02/25089, mailed May 12, 2003. Copies of these search report

Pursuant to 37 C.F.R. §1.97(c)(2), Applicants have included the fee of \$180.00 as -
Pursuant to 37 C.F.R. §1.17(p). Please charge any additional fees or credit any overpayment to forth in 37 C.F.R. §1.17(p). Please charge any additional fees or credit any overpayment to Search report to the searc Pursuant to 37 C.F.R. §1.97(c)(2), Applicants have included the fee of \$180.00 as set

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Serial No :09/845896

Filing Date: April 30, 2001

Title: HIGH PERFORMANCE, LOW COST MICROELECTRONIC CIRCUIT PACKAGE WITH INTERPOSER

Assignee: Intel Corporation

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

STEVEN TOWLE ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

Kacia Lee

Dkt: 884.409US1 (INTEL)

Attorneys for Intel Corporation

P.O. Box 2938

Minneapolis, Minnesota 55402

(612) 37276970

Date (ply 22, 2003

Charles E. Steffey

Reg. No. 25,179

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 22 day of \_\_\_\_\_\_\_, 2003.

KACIA ULE

Jame

Signature

HIGH PERFORMANCE, LOW COST MICROELECTRONIC CIRCUIT PACKAGE WITH Steven Towle et al. Applicant: Title:

INTERPOSER

884.409US1 Docket No.: April 30, 2001 Filed:

Nitin Parekh Examiner:

Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

Serial No.: 09/845896

Due Date: N/A Group Art Unit: 2811

We are transmitting herewith the following attached items (as indicated with an "X"):

A Supplemental Information Disclosure Statement (2 pgs.), Form 1449 (1 pg.), and copies of 14 cited

A check in the amount of \$180.00 to cover the fee for consideration of Information Disclosure Statement under 97(c)

Copy of International Search Report in PCT/US01/12088, mailed May 22, 2003 (4 pgs.). Copy of International Search Report in PCT/US02/15802, mailed May 8, 2003 (5 pgs.).

Copy of Partial International Search Report in PCT/US02/25089, mailed May 12, 2003 (2 pgs.).

If not provided for in a separate paper filed herewith, wase consider this a PETITION FOR EXTENSION OF TIME for If not provided for in a separate paper med nerewith, Flage consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please large any additional fees or credit overpayment to Deposit

Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

Reg. No. 25,179

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with States Postal Sources with sufficient postage of first along mail in an annuluse addressed to Commissioner for Batantee P.O. Box 2938, Minneapolis, MN 55402 (612-373-6900) States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Bed.

1450, Alexandria, VA 22313-1450, on this 22 day of

Name

Customer Number 21186

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

P.O. Box 2938, Minneapolis, MN 55402 (61 (GENERAL)

Ø

PTO/SB04(10-01)
Approved for use through 1031/2022, OMB 551-0031
US Paint & Trainmak Office: U.S. DEPARTMENT OF COMMERCE
Er the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless toordains a wild OMB control number.

Substitute for form 1449A/PTO Complete if Known INFORMATION DISCLOSURE **Application Number** 09/845896 STATEMENT BY APPLICANT April 30, 2001 **Filing Date** Towle, Steven **First Named Inventor Group Art Unit** 2811 JUL 2 5 2003 **Examiner Name** Parekh, Nitin Attorney Docket No: 884.409US1 Sheet 1 of 1

US PATENT DOCUMENTS									
Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate			
	US-2002/0070443	06/13/2002	Mu, Xiao-Chun, et al.	257	712	12/08/2000			
	US-2002/0158334	10/31/2002	Vu, Quat T., et al.	257	723	04/30/2001			
	US-5,055,532	10/08/1991	Hoffman, Dwight K., et al.	525	528	07/06/1987			
	US-5,355,283	10/11/1994	Marrs, Robert C., et al.	361	760	04/14/1993			
	US-5,707,894	01/13/1998	Hsiao, Ming-Shan	437	209	10/27/1995			
	US-6,060,777	05/09/2000	Jamieson, M P., et al.	257	707	07/21/1998			

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T²
	EP-0476971	03/25/1992	Sakai, H., et al.	H01L	23/15	
	EP-0611129	08/17/1994	Fillion, R A., et al.	H01L	21/58	
	EP-0777274	06/04/1997	Wojnarowski, Robert J., et al.	H01L	23/538	
	EP-0877419	11/11/1998	Rinne, Glenn A., et al.	H01L	21/60	
	EP-1111662	06/27/2001	Saia, R J., et al.	H01L	21/00	
	GB-2174543	11/05/1986	Cognetti de Martiis, C.	H01L	23/50	
	JP-2000-349203	12/15/2000	Kato, Chikayuki	H01L	23/28	
	JP-62-004351	01/10/1987	Tamio, S.	H01L	23/48	

	OTHER DOCUMENTS NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>				



**EXAMINER** 

**DATE CONSIDERED**